

05/8/14



OIEP

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/021,338A

DATE: 11/26/2002

TIME: 14:02:36

Input Set : A:\PTO.txt

Output Set: N:\CRF4\11262002\J021338A.raw

3 <110> APPLICANT: Quark Biotech Inc.
 5 <120> TITLE OF INVENTION: Genes involved in stroke response and/or regulated by FK506,
 proteins

6 encoded thereby, and methods of use
 8 <130> FILE REFERENCE: 65542/024-US1
 10 <140> CURRENT APPLICATION NUMBER: 10/021338A
 11 <141> CURRENT FILING DATE: 2001-12-12
 13 <160> NUMBER OF SEQ ID NOS: 131
 15 <170> SOFTWARE: PatentIn version 3.1
 17 <210> SEQ ID NO: 1
 18 <211> LENGTH: 269
 19 <212> TYPE: DNA
 20 <213> ORGANISM: Homo sapiens
 22 <400> SEQUENCE: 1
 23 ccaacttgcc cgttgtccac ggggtcccacc cttctctgcc gctcctcctc tgcagggtccc 60
 25 gccctctccc cctgcctcac tcccaatgtc tcctttggct aagccccctc cacaggcccc 120
 27 acctgctctg gccacacctc ctctgcaggc cttccctct ccgcctgcct cattccctgg 180
 29 gcaggccccct ttctcaccct ctgcctcaact cccaatgtct cctttggcca cgcctcctcc 240
 31 acaggccccca cctgttctgt agttagtta 269
 34 <210> SEQ ID NO: 2
 35 <211> LENGTH: 280
 36 <212> TYPE: DNA
 37 <213> ORGANISM: Homo sapiens
 39 <400> SEQUENCE: 2
 40 ccaagtccac ccgatcaaaa ggctcagctc ttaagtgtc tgcgatactg cttttctaac 60
 42 aatgcctggt gctccctga gtgaattccc aataggagtc tttccacttt agtccaacat 120
 44 gaggaagta gttgcagggt ccaggtaaca taatgagctc caccttggtg atcactctga 180
 46 gtagacaatg ctcaaaaaaa cagagcacca cataatgtat caaccctaac agtcaccctt 240
 48 ctgacatctc tattggaaag aggggataag tagttagtta 280
 51 <210> SEQ ID NO: 3
 52 <211> LENGTH: 261
 53 <212> TYPE: DNA
 54 <213> ORGANISM: Homo sapiens
 56 <400> SEQUENCE: 3
 57 cttttaaatt ttacactat cacactttat ttattcaatc accaagcccc accttatcta 60
 59 ttcccctgct cacacacaaa tccactattc taatcctgct tacacacccc ttccacaggg 120
 61 ttttatctca cttatgataa aatccaaaac tcacagcata gccactctcc ccaaagcata 180
 63 ctatgcttta accacactgg tctttcctaa aggtttctcc tattccccaa tctttcttcc 240
 65 ttactctaag gtagttagtt a 261
 68 <210> SEQ ID NO: 4
 69 <211> LENGTH: 261
 70 <212> TYPE: DNA
 71 <213> ORGANISM: Homo sapiens
 73 <400> SEQUENCE: 4

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74 taactaacta gggaacctgg gggccaaggg gccccagcag tcagcaccaa tgcaatagtc      60
76 cttgaagatc acggccaaag ctatacttgc tctggacagq taactccccc ttccatgggc      120
78 aggggtggtg aaaggagcaa gcagaagcaa aaaggaattt tcctctaaaa acagaattgc      180
80 tgaaaggcac ttaatagagg gataggggcc agacacggtg gtcacacct ataatcccag      240
82 tactttaata ggaagaggct g                                     261
85 <210> SEQ ID NO: 5
86 <211> LENGTH: 110
87 <212> TYPE: DNA
88 <213> ORGANISM: Homo sapiens
90 <400> SEQUENCE: 5
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96 <210> SEQ ID NO: 6
97 <211> LENGTH: 256
98 <212> TYPE: DNA
99 <213> ORGANISM: Homo sapiens
101 <400> SEQUENCE: 6
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104 cactgctaata tggataataa gcagctacca catccagtat gagccagtca gatcctctct      120
106 cttgggaaac tagcattcac agccagtgcc tctacagaga aggaagcata agcatttaga      180
108 aagatagttc tcctgactct agggggccac tggttaataac aatctcagtt tctgaggctt      240
110 tccagtttct ggatcc                                     256
113 <210> SEQ ID NO: 7
114 <211> LENGTH: 403
115 <212> TYPE: DNA
116 <213> ORGANISM: Rattus sp.
118 <220> FEATURE:
119 <221> NAME/KEY: misc_feature
120 <222> LOCATION: (255)..(255)
121 <223> OTHER INFORMATION: n
123 <400> SEQUENCE: 7
124 cctcagtagg agggagcgcg tgtgtgtgtg tgtgcgctg tgtgagtgtg tgtaacaacc      60
126 cagaaagctg gtaagagctg cagagaggca gtgtttatta gattcacact tagacactga      120
128 ttgtgggttc tggtttagct cttttataat tgtaaagtta tatttttgct gctttgtaat      180
130 aggataattc ttaagcatca tcttaaaata gaggtatttt gattcttttt tgtggagctg      240
W--> 132 tgactaaagt gcagngtctc acataggcta agcaagtgct gtgcactgag ttgaacccca      300
134 gcagaagtag gtgctgcaag tgtaaaacaa ggctaaaggg cctaattgcac acagcctgtg      360
136 caggccgcga gtgcaccgac tataagcccc atgctattaa agc                                     403
139 <210> SEQ ID NO: 8
140 <211> LENGTH: 401
141 <212> TYPE: DNA
142 <213> ORGANISM: Rattus sp.
144 <400> SEQUENCE: 8
145 cctcagtagg agggagcgcg tgtgtgtgtg tgtgcgctg tgtgagtgtg tgtaacaacc      60
147 cagaaagctg ggaagagctg cagagaggca gtgtttatta gattcacact tagacactga      120
149 ttgtgggttc tggcttagct cttttataat tgtacagcta tatttttgct gctttgtaat      180
151 aggataattc ttaagcatca tcttaacata gaggtatttt gcttcttttt tgtggcgctt      240
153 gacattaagt gcagcctctc acataggcta agcaagtgct gcgcacttga gtgaactgca      300
155 gcagaagtag tcgctgcacg tgtaaaacaa ggctacagat tctaattgcac acagcctgtg      360

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157 cagaccgcgt gtccaccgtc tataaggcat ggctataacg g 401
160 <210> SEQ ID NO: 9
161 <211> LENGTH: 402
162 <212> TYPE: DNA
163 <213> ORGANISM: Rattus sp.
165 <220> FEATURE:
166 <221> NAME/KEY: misc_feature
167 <222> LOCATION: (237)..(237)
168 <223> OTHER INFORMATION: n
170 <400> SEQUENCE: 9
171 ctttaatagc catggcctta tagacggtgg ccacgcggcc tgcacaggct gtgtgcatta 60
173 ggcccttttag ccttggtttta cacttgacgc acctacttct gctgggggttc aactcagtgc 120
175 acagcacttg cttagcctat gtgagaccct gcacttaatg ccagcacca caaaaaagaa 180
W--> 177 acaaaatacc tctatttttaa gatgatgctt aagaattatc ctattacaaa gcagcanaaa 240
179 tataacttta caattataaa agagctaaac caggaccac aatcagtgtc taagtgtgaa 300
181 tctaataaac actgcctctc tgcagctctt accagctttc tgggttggtg cacacactca 360
183 cacacgcgca cacacacaca cagcgctccc ctctactga gg 402
186 <210> SEQ ID NO: 10
187 <211> LENGTH: 410
188 <212> TYPE: DNA
189 <213> ORGANISM: Rattus sp.
191 <400> SEQUENCE: 10
192 tggagctaata tgcgcgcggc cgcggtacga cgaacctgcc cctgatgacc ctccccctt 60
194 ttgcataggt cactggatcc cactgtcctt cctcgggtgt tacacacttt acagaccctt 120
196 taggcgagcc cttgcataga gcgttatctc agtgtccat tccagtcctg actccctgtg 180
198 gccattgaga ctttggtatt aagaactcac attgctaggg agaggggctt tgctgggaaa 240
200 ggtgactcct ctgtaacctc gcctcttggt ctcctccatg acagaaatgc tgggtggagt 300
202 ttacatttg ccaatggcca gcttgatga atcttcatat acactttcta ttcattgtac 360
204 tgtagtttct gttttgaaat aaaacttctg aatgtaaaaa aaaaaaaaaa 410
207 <210> SEQ ID NO: 11
208 <211> LENGTH: 242
209 <212> TYPE: DNA
210 <213> ORGANISM: Rattus sp.
212 <400> SEQUENCE: 11
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215 gcagtcagg cacaccctgt gtgcagagtc ggccatgctt tgggagggtg tcaggaaaga 120
217 gtcatttact ttgactgcct gtgggctgac ttcagaactt caggtcttaa ggtttgctgg 180
219 cttctgaaaa cactttctaa agagcccatg aatataaat ataactaact tagaaagccc 240
221 tg 242
224 <210> SEQ ID NO: 12
225 <211> LENGTH: 69
226 <212> TYPE: DNA
227 <213> ORGANISM: Rattus sp.
229 <400> SEQUENCE: 12
230 tttttttttt tttttttttt ttttttaaaa ttcaaggatg gggttaaagg ggaattccc 60
232 ggggggggg 69
235 <210> SEQ ID NO: 13
236 <211> LENGTH: 165
237 <212> TYPE: DNA

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238 <213> ORGANISM: Rattus sp.
240 <400> SEQUENCE: 13
241 ggtaacggcgt acctgcctcc cagtcttctc ttttctatag catggcttta agcctgcctc      60
243 cttgacatgc tgtatatatt ctattgtatt tgtttcattg tcccacactt aactcagggtg      120
245 tgctaaaaat aaaagtaaat ttaacagtc aaaaaaaaaa aaaaa      165
248 <210> SEQ ID NO: 14
249 <211> LENGTH: 172
250 <212> TYPE: DNA
251 <213> ORGANISM: Rattus sp.
253 <400> SEQUENCE: 14
254 tttttttttt ttttttgac ggtaaaaatt aactttaatt ttaagcacac ctgagttaag      60
256 gggggaacaa tgaaacaaat ccaatagaat ttttacagca tgtaaaggag gcaggtttaa      120
258 aagccatgct ataaaaaaga gaaaactgga aggcaggtag gccgtaccgg gc      172
261 <210> SEQ ID NO: 15
262 <211> LENGTH: 157
263 <212> TYPE: DNA
264 <213> ORGANISM: Rattus sp.
266 <400> SEQUENCE: 15
267 ctgcctccca gtcttctctt ttctatagca tggctttaaa gcctgcctcc ttgacatgct      60
269 gtatatattc tattgtatatt gtttcattgt cccacactta actcagggtg gctaaaaata      120
271 aaagtaaaatt ttaacagtc aaaaaaaaaa aaaaagg      157
274 <210> SEQ ID NO: 16
275 <211> LENGTH: 209
276 <212> TYPE: DNA
277 <213> ORGANISM: Rattus sp.
279 <400> SEQUENCE: 16
280 ccatacagtg cgcacttcga gtataacaac gcgagtgcga tgctttacca tgatgcatga      60
282 agaaaactga ggagacagat cagctactat cgtagccatt acagctgaag agattcaaaa      120
284 ttggaaggca ctaactgatt gcgttaagac gcattctatc aaggttatca tagatgaaag      180
286 atcatagaaa ctggaaggca taaactgag      209
289 <210> SEQ ID NO: 17
290 <211> LENGTH: 323
291 <212> TYPE: DNA
292 <213> ORGANISM: Rattus sp.
294 <220> FEATURE:
295 <221> NAME/KEY: misc_feature
296 <222> LOCATION: (280)..(320)
297 <223> OTHER INFORMATION: n
299 <400> SEQUENCE: 17
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302 agaaaactga ggagacagat cagctactat cgaagccatt acagctggag agatacttac      120
304 tgggaagccg ctaactgatt gcgttacgct gaaatgtatc aaggttatca tagatgagag      180
306 atcatagaaa ctgctaggca tacactgagc attaagctta tcgacaccgt ggagctcgag      240
W--> 308 gtgagtccac gcaccagctg tgggaccgtg tagggactgn tacctacgag catggcgaga      300
W--> 310 tcatagggcat agnntngtan tca      323
313 <210> SEQ ID NO: 18
314 <211> LENGTH: 159
315 <212> TYPE: DNA
316 <213> ORGANISM: Rattus sp.

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318 <220> FEATURE:
319 <221> NAME/KEY: misc_feature
320 <222> LOCATION: (60)..(60)
321 <223> OTHER INFORMATION: n
323 <400> SEQUENCE: 18
W--> 324 ctgcctccca gtcttctctt ttctatagca tggctttaaa gctgcctcc ttgacatgcn      60
326 tgatatattc tattgtatctt gtttcattgt cccacactta actcaggtgt gctaaaaata      120
328 aaagtaaat ttaacagtca aaaaaaaaaa aaaaaaagg      159
331 <210> SEQ ID NO: 19
332 <211> LENGTH: 162
333 <212> TYPE: DNA
334 <213> ORGANISM: Rattus sp.
336 <400> SEQUENCE: 19
337 cgacgaacct gcttccagt cttctctttt ctatagcatg gctttaaagc ctgcctcctt      60
339 gacatgctgt atatattcta ttgtatttgt ttcattgtcc cacacttaac tcaggtgtgc      120
341 taaaaataaa agtaaatttt aacagtcaaa aaaaaaaaaa aa      162
344 <210> SEQ ID NO: 20
345 <211> LENGTH: 142
346 <212> TYPE: DNA
347 <213> ORGANISM: Rattus sp.
349 <220> FEATURE:
350 <221> NAME/KEY: misc_feature
351 <222> LOCATION: (50)..(50)
352 <223> OTHER INFORMATION: n
354 <400> SEQUENCE: 20
W--> 355 cttctctttt ctatagcatg gctttaaagc ctgcctcctt gacatgctgn atatattcta      60
357 ttgtatttgt ttcattgtcc cacacttaac tcaggtgtgc taaaaataaa agtaaatttt      120
359 aacagtcaaa aaaaaaaaaa aa      142
362 <210> SEQ ID NO: 21
363 <211> LENGTH: 162
364 <212> TYPE: DNA
365 <213> ORGANISM: Rattus sp.
367 <220> FEATURE:
368 <221> NAME/KEY: misc_feature
369 <222> LOCATION: (68)..(68)
370 <223> OTHER INFORMATION: n
372 <400> SEQUENCE: 21
373 cgacgaacct gcttccagt cttctctttt ctatagcatg gctttaaagc ctgcctcctt      60
W--> 375 gacatgontg atatattcta ttggatttgt ttcattgtcc cacacttaac tcaggtgtgc      120
377 taaaaataaa agtaaatttt aacagtcaaa aaaaaaaaaa ag      162
380 <210> SEQ ID NO: 22
381 <211> LENGTH: 159
382 <212> TYPE: DNA
383 <213> ORGANISM: Rattus sp.
385 <400> SEQUENCE: 22
386 cgacgaacct gcttccagt cttctctttt ctatagcatg gctttaaagc ctgcctcctt      60
388 gacatgctgt atatattcta ttgtatttgt ttcattgtcc cacacttaac tcaggtgtgc      120
390 taaaaataaa agtaaatttt aacagtcaaa aaaaaaaaaa      159
393 <210> SEQ ID NO: 23

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; N Pos. 255
Seq#:9; N Pos. 237
Seq#:17; N Pos. 280,313,314,316,320
Seq#:18; N Pos. 60
Seq#:20; N Pos. 50
Seq#:21; N Pos. 68
Seq#:26; N Pos. 70
Seq#:46; N Pos. 339,344
Seq#:47; N Pos. 386
Seq#:61; N Pos. 511,522,561,572,589,602,666
Seq#:63; N Pos. 561,595,604,614
Seq#:64; N Pos. 217,321,543,544,545,546,547,548,605,635,643
Seq#:79; N Pos. 344,345,403
Seq#:85; N Pos. 466
Seq#:91; N Pos. 459,460
Seq#:94; N Pos. 156,189,212,238
Seq#:95; N Pos. 2
Seq#:101; N Pos. 2
Seq#:104; N Pos. 42
Seq#:105; N Pos. 120
Seq#:107; N Pos. 120,129,149
Seq#:108; N Pos. 19
Seq#:109; N Pos. 20,106,118,143,174,221
Seq#:111; N Pos. 30,175
Seq#:112; N Pos. 34
Seq#:115; N Pos. 18,26,151
Seq#:116; N Pos. 14
Seq#:117; N Pos. 207
Seq#:120; N Pos. 2,19,27,33,67
Seq#:122; N Pos. 11,99,100,125,140
Seq#:126; N Pos. 80
Seq#:128; N Pos. 19,72,202
Seq#:129; N Pos. 13,19,45
Seq#:130; N Pos. 46,47

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L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:240
L:177 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:180
L:308 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:240
L:310 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:300
L:324 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:355 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:60
L:443 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:60
L:784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:300
L:812 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:360
L:1067 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:480
L:1069 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:540
L:1071 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:600
L:1073 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:660
L:1134 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:540
L:1136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:600
L:1158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:180
L:1162 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:300
L:1170 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:540
L:1172 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:64 after pos.:600
L:1448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:300
L:1450 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:360
L:1563 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:85 after pos.:420
L:1672 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:91 after pos.:420
L:1730 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:120
L:1732 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:180
L:1748 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:95 after pos.:0
L:1831 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:101 after pos.:0
L:1873 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:104 after pos.:0
L:1893 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:105 after pos.:60
L:1924 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:107 after pos.:60
L:1926 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:107 after pos.:120
L:1940 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:108 after pos.:0
L:1958 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:0
L:1960 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:60
L:1962 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:120
L:1964 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:109 after pos.:180
L:1989 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:0
L:1993 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:111 after pos.:120
L:2009 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:112 after pos.:0
L:2059 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115 after pos.:0
L:2063 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115 after pos.:120
L:2077 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:116 after pos.:0
L:2103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:117 after pos.:180
L:2147 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:0
L:2149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:60
L:2176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:0
L:2178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:60

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L:2180 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:120
L:2235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:60